

RP03199

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# Recombinant Human DPYS Protein

Catalog No.: RP03199

Recombinant

## Sequence Information

Species	Gene ID	Swiss Prot
Human	1807	Q14117

### Tags

No tag

### Synonyms

DHP; DHPase; DPYS

## Product Information

Source	Purification
Baculovirus-Insect Cells	> 95% by SDS-PAGE.

### Endotoxin

< 1.0 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from sterile 20 mM Tris, 500 mM NaCl, 3 mM DTT, 10% glycerol, pH 8.0. Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Background

DPYS, also known as dihydropyrimidinase, belongs to the DHOase family, hydantoinase/dihydropyrimidinase subfamily. DPYS catalyzes the second step of the reductive pyrimidine degradation, the reversible hydrolytic ring opening of dihydropyrimidines. It can catalyzes the ring opening of 5,6-dihydrouracil to N-carbamyl-alanine and of 5,6-dihydrothymine to N-carbamyl-amino isobutyrate. DPYS is expressed at a high level in liver and kidney as a major 2.5-kb transcript and a minor 3.8-kb transcript. Defects in the DPYS gene are linked to dihydropyrimidinuria.

## Basic Information

### Description

Recombinant Human DPYS Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Met1-Pro519) of human DPYS (Accession #Q14117) fused with two additional amino acids (Gly&Pro) at the N-terminus.

### Bio-Activity

### Storage

Store the lyophilized protein at -20°C to -80 °C for 12 months. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.

Avoid repeated freeze/thaw cycles.

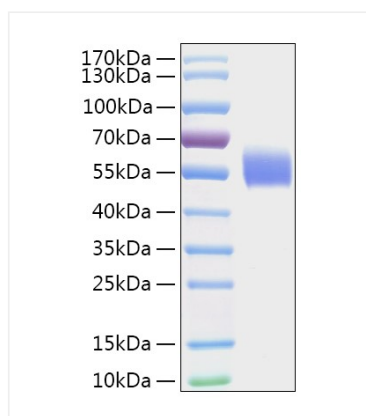
## Contact



[www.abclonal.com](http://www.abclonal.com)

## Validation Data

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Recombinant Human DPYS Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 50-60 kDa.